



Like us on Follow us on

www.falconzero.com  
info@falconzero.com  
844.921.4448



FALCON  
ZERO

## F170HD Vehicle Digital Video Recorder

incredi SONIC

01



### Index

Intro	02	F170HD LCD Icons / Buttons	38
Safety Precautions	03	/ Inputs	
Getting Started	09	Troubleshooting	42
Video Recording	16	Support	48
Video Settings/Device Settings	22	Warranty	49
F170HD Feature Shortcuts	36		
F170HD LCD Icons	37		

Thank you for purchasing Falcon Zero's F170HD – an advanced vehicle digital video recorder (DVR) that is specifically designed to capture real time video of events happening outside your vehicle while driving.

Mounted on your car's windshield, the F170HD uses a 170° Wide Angle Lens for the best field of view and records video in crystal clear Full HD 1080P to ensure all the important details of your trip are recorded. This User Manual will give you step-by-step instructions and advice to help you get the best experience from your new device. Please read carefully before using the F170HD.

### Introduction

02

03



### Safety Precautions

These usage and safety guidelines are important. Please follow them carefully to ensure your own personal safety and help protect your F170HD from potential damage.

#### General Use

- For in-vehicle use only.
- Do not operate the F170HD while driving.

- Avoid using or storing the F170HD in an extreme temperature environment.
- Never allow the F170HD to come in contact with water or any other liquids.
- Do not use the F170HD in environments with strong magnetic fields or excessive vibration.
- If your car's lighter socket continues to provide power after the engine is switched off, unplug the F170HD when the engine is off or idling to reduce unnecessary power consumption and prevent any unexpected problems.



04

05



### Mounting Location

- Never place the F170HD where the driver's view or deployment of airbags is obstructed.
- Mount the F170HD within range of the windshield wipers to ensure clear visibility in rain.

**NOTE:** Remove the F170HD carefully if mounting the F170HD on a tinted window to prevent damage to the tint film.

### Package Contents

Falcon Zero F170 HD DVR, Vehicle Mounting System, 11' Power Cord, GPS Software Disc, USB Cord, Dual USB Car Charger, 32GB Class 10 Falcon Zero SD Card, and Instruction Manual



06

07



### Features

- Smooth, detailed Full HD 1080P recording @ 30fps resolution
- Bright 2.7" color LCD screen
- 170 degree 6 glass wide angle lens
- Bundled 32GB microSD memory card
- Motion Detection & Parking Mode
- G-Sensor with customizable sensitivity

- Hi-Speed USB 2.0 connector for easy computer connectivity and fast file transfers
- Stream videos on a TV screen via mini HDMI
- Built-in microphone
- Built-in speaker
- Supports 14 languages
- And much, much more.



08

09



### Getting started

#### Installing the Memory Card

Before you can use or turn on the device, you must install a memory card.

1. On the bottom of the F170HD is the rubber port protector; lift this carefully.
2. Insert the provided memory card into the slot on the device.
3. Press it in until it clicks then place back the rubber port protector.

#### Connecting the Device to Vehicle Power

1. With the vehicle off, plug the power cable into a power outlet in your vehicle.
2. Plug the other end of the power cable in the USB port on the F170HD
3. Slide the suction cup mount onto the F170HD
4. Press the suction cup to the windshield, and flip the lever back towards the windshield.
5. Route the 11' power cable around the interior of vehicle as shown on page 12
6. Turn on the vehicle.



10

11



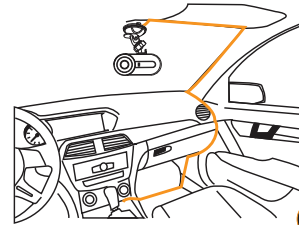
### Auto Start

When the device is connected to an ignition-switched power outlet, the F170HD turns on automatically when you turn on your vehicles and will power down when the vehicle turns off.

**NOTE:** If your vehicle does not have an ignition-switched power outlet, you must manually turn it off by pressing the power button.

### Power Cord Management

The F170HD comes with an 11' USB power cord. Route the power cord to the 12V power adapter as shown below. The power cable should not be obstructing your view of the road.



12

13



The Falcon Zero F170HD is pre-configured to the most optimal resolution settings. Install the F170HD onto your windshield so it's not blocking your view. Once the above is done and the vehicle is powered on the unit will start to record automatically. Using the LCD screen, point the camera to where you would like to record.

The LCD screen will automatically power down but the F170HD continues to record (leaving the LCD on at all times may be a distraction), however, you will see a green LED light next to the screen indicating the unit is recording. To view the LCD briefly

press the up or down button and the display will turn on and turn off again after a brief period. A Red LED light is also present and will turn on and off, this is normal, as it is simply indicating the internal lithium ion battery is being accessed for internal usage.

The GPS module must be attached to record your coordinates to run on the included software. The software is not needed to view videos but is required to view the recordings location on a map.



14

15



When you power down the vehicle the F170HD will automatically power down after a set amount of time that you set (see Default Shutdown Setting). The recorded footage will remain on the microSD card until it is written over by new footage (Loop Recording) and can also be adjusted from 3 minute to 5 and 10 minute loops. Or you can turn looping off, but note that once the microSD card is filled you must manually format the card again to record. The F170HD will alert you when the card is filled.

16

17



### Video Recording

The F170HD immediately begins recording video when it turns on, and it continues recording, overwriting the oldest, non protected videos until it turns off (looping).

### Protecting a Video File

The F170HD uses a sensor to automatically detect accidental collisions. Also called a Gravity Sensor (G-Sensor), you can adjust sensitivity in Settings. When the G-Sensor is on, which is by default, set on Medium Sensitivity, and a collision is detected, the F170 will automatically lock that clip and prevent any overwriting. You can also manually protect videos at any time by pressing the Menu button while recording, you will notice a (key icon here) indicating that clip is now locked and will not be overwritten, the only way to delete that file is manually.



18

19



### Taking a Picture

By pressing the OK button, you will stop the F170HD from recording. The red on-screen flashing red light will stop, and press the MODE button to switch to Picture Mode. In this mode press the OK button to take a picture, and if needed use the UP and DOWN buttons to zoom in and out.

### Viewing Videos and Photos

The F170HD has a built in 2.7" LCD screen to calibrate the cameras viewing angle as well as playing back video with sound or viewing pictures. This also allows the user to be able to change settings without having to plug the F170HD to a computer. There are 3 modes: Video, Photo, and Video/Photo Playback. By pressing the Mode button while the F170HD is not recording, this will allow the user to select between modes.



20

21



1. F170HD must not be recording, if so simply press the OK button to stop
2. Press the MODE button until the Video/Photo Playback selection appears
3. Select between the videos and photos by using the UP and DOWN buttons
4. Play and pause a video using the OK button, and to exit the video, press the MODE button.

### Videos and Photos on Your Computer

You can connect the F170HD with the included USB cord to your computer to view, transfer, or delete videos and photos stored on the device memory card.

1. Press the MENU button when viewing a video or picture
2. Three options will appear: Delete, Protect, and Slide Show



22

23



## Video Settings/Device Settings

Enter the Video Settings by pressing the MENU button while the F170 is idle and not recording. Enter Device Settings by quickly pressing the MENU button again. Below is a list of settings and options.

## Video Settings

**Resolution:** Set the resolution/quality for recording videos, available options are 1080FHD, 720HD, WVGA or VGA. The lower the resolution the lower the quality and memory usage



24

25



**Loop Recording:** Select 3, 5 or 10 minute loop clips, or select OFF for continuous recording. When memory card is filled with loop clips, the oldest files will be overwritten.

**NOTE:** If OFF is selected the F170HD will record until the SD card is filled, and then stop recording. You will have to format the card to use again. Loop Mode is recommended.

**HDR:** High Dynamic Range is for the best possible clarity as it uses multiple images to create the most optimal single image. Default this is On, however this feature can be shut off to save space on SD card.

**Exposure:** Adjust exposure composition value to lighten or darken the LCD screen; default is 0.0.



26

27



**Motion Detection:** While the F170HD is powered down and the vehicle is shut off, the internal battery will power on the unit and record a 10 second locked clip should movement be detected.

**NOTE:** This is Off by default and should not be On when driving, it is strictly for a parked vehicle situation.

**Record Audio:** On or Off; default is set to OFF, turn ON to record audio while recording video.

**Date Stamp:** On or Off; default is set to On. This feature will embed in the recording the Date and Time on Video Playback.



28

29



**Gravity sensing:** Off, Low, Medium, or High Sensitivity. Also known as the G-Sensor, this mechanism will detect sudden collisions and automatically lock the recording to prevent overwriting.

**NOTE:** Adjust the sensitivity if does not detect events or incorrectly detects events during normal driving.

**GPS:** Global Position Satellite coordinates can be recorded onto the SD card and played on your computer with the included software showing the recorded route on Google Maps. The software will also display speed and time.

**Plate Number:** If multiple F170s are being used in different vehicles, each F170 can be assigned the plate number for that vehicle, a very handy setting for vehicle fleets.



30

31



**Parking Monitor:** This option can be turned On or Off. If turned On, when your vehicle is parked and powered down, the F170HD can pick up vibrations and collisions and will turn on using the internal battery and lock record a 10 second session.

## Device Settings

**Date/Time:** Sets Date and Time. Using the Ok button to switch between values and the Up and Down button to change numbers.

**Auto Power Off:** 3, 5, 10 minutes or Off. When the F170 is not hooked up to a power supply and not being used, the unit will power down automatically. If set to Off, it will remain on until the internal battery is out of power.



32

33



**Beep Sound:** On or Off.

**Language:** English, French, Spanish, Portuguese, Dutch, Italian, Chinese, Simplified Chinese, Russian, Japanese, Common Czech, Danish, Norwegian and Swedish.

**Frequency:** 50Hz or 60Hz. Depending on the region of the world being used, 60Hz is generally for the America's and parts of China.

**Night Vision:** Turn the IR lights on or off, this feature is mainly used for the interior of the vehicle if recording. However Night Vision can also help the overall outside clarity at night time or in darkened places.



34

35



**AutoUpdateTime:** GMT Adjustment

**Format:** Format the SD card right on the F170HD instead of formatting via computer. Very useful if using Continuous recording and the SD card fills up, this can be done right on the spot.

**Screen Saver:** Set duration for display to automatically turn off after recording begins.

**Delayed Shut Down:** Set duration the F170HD is to remain recording for after the vehicle has been turned off. Settings are off, 5, 10, and 30 seconds. This will be powered by the internal battery.

**Default Setting:** Restores the F170HD back to factory settings.

**Version:** Current operating version.

36

37



### F170HD Feature Shortcuts

Below you will find some helpful one button press shortcuts to a few key features.

- Night Vision: To toggle between On and Off, press the Mode button while recording.
- Emergency File Lock: To lock a file while driving press the Menu button while recording.
- Parking Mode: To toggle between On and Off press the Power button for 1 second
- Microphone: To toggle between On and Off press the Mode button while recording.

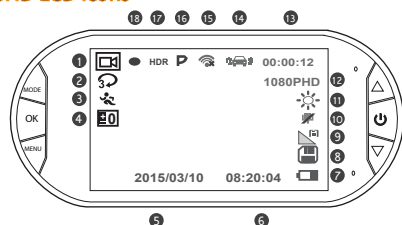


38

39



### F170HD LCD Icons



- 1) Current Mode – Video/Picture/Playback
- 2) Loop Time – 3/5/10 Min.'s or Off
- 3) Motion Detection On/Off
- 4) Exposure – +2.0 to -2.0 Range
- 5) Date
- 6) Current Time
- 7) Battery Charge – Internal Battery only
- 8) Memory Card – Indicates Card Installed
- 9) G-Sensitivity – Low/Medium/High/Off

- 10) Sound – On/Off
- 11) Night Vision – On/Off
- 12) Resolution – 1080P/720P/WVGA/VGA
- 13) Current Loop Time
- 14) Vibration Sensor
- 15) GPS – On/Off\*
- 16) Parking Mode – On/Off
- 17) HDR - On/Off

\*Red X indicators means no signal, this may take a few minutes to activate.

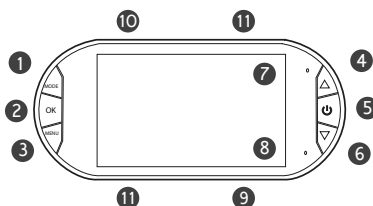


40

41



### F170HD LCD Icons/Buttons/Inputs



#### F170HD Buttons

- 1) Mode
- 2) OK/Rec
- 3) Menu
- 4) Up/Zoom
- 5) Power
- 6) Down/Zoom
- 7) Recording LED
- 8) Charging LED\*
- 9) Mini HDMI/MicroSD Card Port
- 10) Mini USB Port
- 11) GPS Port

\*LED light on time may vary as the F170HD accesses internal hardware



42

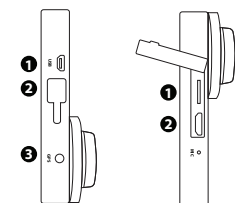
43



#### F170HD Inputs

- Top
1. USB Port
  2. Reset Pin Hole
  3. GPS Port

- Bottom
1. microSD Card Slot
  2. Mini HDMI Out Port
  3. Microphone



44

45



### Troubleshooting

If a problem occurs with your F170HD please first check the information listed below before sending your device for repair..

#### My computer's operating system cannot detect my F170HD

Check the following:

1. Is your F170HD properly connected to the USB port? If not, unplug it and plug it in again. Make sure the USB port is connected on both ends, as shown in the User's Manual.
2. Is your F170HD connected to the Mac keyboard? If yes, unplug it and plug it into an available USB port on your Mac Desktop.



46

47



3. Is the computer's USB port enabled? If not, refer to the user's manual of your computer (or motherboard) to enable it.

#### **I was using my F170HD, now no buttons are responding (hangs / lags / stalls)**

Try unplugging the car adapter from your F170HD, then reconnecting it to your F170HD again.

#### **My F170HD cannot read videos on my memory card**

1. Edited and deformed videos may not display properly on your F170HD.
2. F170HD only play files generated by F170HD.



48

49



#### **Why does the time and date reset after not using my F170HD for a long time?**

If your F170HD is not connected to a power source for a long period of time, the internal backup battery will eventually drain. Typically, your F170HD can keep your time and date settings for about 4 days without any external power source.

#### **Why does nothing happen when I press the "Emergency Recording" button?**

Emergency recording only works when your F170HD is in recording mode.



50

51



#### **Support**

At Falcon Zero we believe customer support is paramount. Should the above trouble shooting tips be of no use, please contact us immediately at [info@falconzero.com](mailto:info@falconzero.com) or call us at 844.921.4448

A One Year Limited Manufacturers warranty is included as well as our signature LifeTime Support for questions and answers.



52

53



#### **Warranty**

##### **1 Year Manufacturer Limited Warranty**

Falcon Zero© warrants to you, the original retail purchaser ("Consumer"), that this product ("Product") will under normal use operate substantially in accordance with the accompanying documentation for a period of one (1) year from date of original purchase. Consumer's sole and exclusive remedy and Falcon Zero's sole and exclusive responsibility under this warranty will be, at Falcon Zero's option, either

to repair or replace the defective Product during the one (1) year limited warranty period so that it performs substantially in accordance with the accompanying documentation on the date of your initial purchase. Any replacement may be, at the option of Falcon Zero, a new or remanufactured Product. If Falcon Zero, in its sole discretion, determines it is not reasonable to replace the defective Product, Falcon Zero may refund to Consumer the purchase price paid for the Product.



54